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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO 09/433,609 11/02/99 BARNARD Ε 47898-056 **EXAMINER** WM01/1004 DONALD R. STEINBERG, ESQ. ARMSTRONG, A HALE & DORR LLP **ART UNIT** PAPER NUMBER 60 STATE STREET BOSTON MA 02109 2641 **DATE MAILED:** 10/04/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

		Application No.	Applicant(s)
Office Action Summary		09/433,609	BARNARD ET AL.
		Examiner	Art Unit
		Angela A. Armstrong	2641
The MAILING DATE of this communication appears on the cover sheet with the correspondence address			
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status			
1)🖂	Responsive to communication(s) filed on <u>02 /</u>	<u>November 1999</u> .	
2a) <u></u> □	This action is FINAL . 2b)⊠ Th	is action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4)⊠ Claim(s) <u>1-17</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-17</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or election requirement.			
Application Papers			
9) The specification is objected to by the Examiner.			
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.			
12) The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)[All b) Some * c) None of:	s have been received	
	 Certified copies of the priority documents Certified copies of the priority documents 		ion No
	2. Certified copies of the priority documents have been received in Application No3. Copies of the certified copies of the priority documents have been received in this National Stage		
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).			
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 			
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4			
S. Patent and Trademark Office			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 2. Claims 1-3 and 6-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Nguyen et al (US Patent No. 6,272,462).
- 3. Regarding claims 1-3 and 6-17, Nguyen et al teach a method of supervised adaptation using corrective N-best decoding which implements

Utterance alignment for correct and incorrect alignment data at col. 5, lines 11-42

Using the incorrect model data in the adaptation process at col. 5, lines 28-31 and lines 39-42

Model adaptation with implementation of mean values at col. 5, line 52 - col. 7, line 10

Iterative training at col. 3, lines 26-31

N-best hypothesis list at col. 2, lines 58-62

Multi-pass adaptation at col. 4, lines 42-60

Suggests a car navigation routing apparatus as a particular application of the system at col. 4, line 64 – col. 5, line 5.

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nguyen et al in view of Roberts et al (US Patent No. 5,027,406).
- 6. Regarding claims 4 and 5, Nguyen et al teach everything as claimed in claimed 1.

 Nguyen et al do not teach user confirmation for indicating a correct or incorrect recognition.

 Refer to Roberts et al who teach an interactive speech recognition and training method which allows for user confirmation of a recognized utterance, for the purpose of creating or updating an acoustic model of the word (abstract).

It would have been obvious to one of ordinary skill at the time of invention to modify the speech recognition adaptation system of Nguyen et al to implement user confirmation of recognized utterances as suggested by Roberts, for the purpose of updating the acoustic model of the utterance, as suggested by Roberts, thereby improving the recognition performance of the system.

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Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

8. Juang et al (US Patent No. 6,076,053) teach a method and apparatus for discriminative

training which implements an N-best algorithm and parameter adaptation.

9. Sejnoha (US Patent No. 6,260,013) teach a speech recognition system that uses a

discriminative training procedure for speech models.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Angela A. Armstrong whose telephone number is 703-308-6258.

The examiner can normally be reached on Monday-Thursday 7:30-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William R. Korzuch can be reached on 703-305-6137. The fax phone numbers for

the organization where this application or proceeding is assigned are 703-308-6306 for regular

communications and 703-308-6296 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-305-3900.

AAA

September 27, 2001

WILLIAM KORZUCH

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SUPERVISORY PATENT EXAMINER

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